

Ref. no. 12439-113

Modified Form PTO/SB/08A

Information Disclosure Statement by Applicant (use as many sheets as necessary)				Complete If Known	
				Application Number	10/749,028
				Filing Date	December 30, 2003
				First Named Inventor	Pedersen et al.
				Group Art Unit	2839
				Examiner Name	N. Abrams
Sheet	1	of	1	Attorney Docket No.	P46C1-US

U.S. PUBLISHED PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant	Publ./Issue Date	Copy Enclosed
		Number	Kind Code <sup>2</sup>			
NY	1.	2001/0020545		Eldridge et al.	9/13/2001	No <sup>**</sup>
	2.	2001/0020546		Eldridge et al.	9/13/2001	No <sup>**</sup>
	3.	2002/0004320		Pedersen et al.	1/10/2002	No <sup>**</sup>
	4.	2002/0117330		Eldridge et al.	8/29/2002	No <sup>**</sup>
	5.	2003/0107394		Khandros et al.	6/12/2003	No <sup>**</sup>
	6.	2004/0064941		Dozier, II et al.	4/8/2004	No <sup>**</sup>
	7.	6033935		Dozier et al.	3/7/2000	No <sup>**</sup>
	8.	6064213		Khandros et al.	5/16/2000	No <sup>**</sup>
	9.	6229320		Haseyama et al.	5/8/2001	No <sup>**</sup>
	10.	6232149		Dozier et al.	5/15/2001	No <sup>**</sup>
	11.	6336269		Eldridge et al.	1/8/2002	No <sup>**</sup>
	12.	6525555		Khandros et al.	2/25/2003	No <sup>**</sup>
	13.	6534856		Dozier, II et al.	3/18/2003	No <sup>**</sup>
NY	14.	6642625		Dozier, II et al.	11/4/2003	No <sup>**</sup>

FOREIGN PATENT DOCUMENTS								
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup>				
NY	15.	JP	60-49656		Chickara et al.	2/22/1994	X	Yes
	16.	JP	10-069955		Maruyama et al.	3/10/1998	X	Yes
NY	17.	JP	08-263092		Wakefield	10/13/1995	X	Yes
	18.	JP	09-508241		FormFactor, Inc.			No <sup>***</sup>

Examiner Signature	<i>N. Abrams</i>	Date Considered	10-15-04
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

\*\* See Pre-OG Notice By Deputy Commissioner Stephen G. Kunin dated July 11, 2003 waiving the requirement to file copies of US patent publications in applications filed after June 30, 2003.

\*\*\* WO 96/15551 (which was submitted in an IDS submitted May 17, 2004) is an English language equivalent.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.



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				Application Number	10/490,028
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				Group Art Unit	Not known
				Examiner Name	Not known
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## U.S. PATENT DOCUMENTS

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		Number	Kind Code <sup>2</sup>			
WU	1.	3379937		Shepherd	4/24/1968	
	2.	4025148		Bouley	5/24/1977	
	3.	4105277		Jacobs	8/8/1978	
	4.	4477134		Wright	10/16/1984	
	5.	4511201		Baker et al.	4/16/1985	
	6.	4553192		Babuka et al.	11/12/1985	
	7.	4940181		Juskey, Jr. et al.	7/10/1990	
	8.	4966556		Reymond	10/30/1990	
	9.	5036431		Adachi et al.	7/30/1991	
	10.	5055777		Bonelli et al.	10/8/1991	
	11.	5106309		Matsuoka et al.	4/21/1992	
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	13.	5195237		Cray et al.	3/23/1993	
	14.	5207585		Byrnes et al.	5/4/1993	
	15.	5214308		Nishiguchi et al.	5/25/1993	
	16.	5239260		Widder et al.	8/24/1993	
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	18.	5366380		Reymond	11/22/1994	
	19.	5455390		DiStefano et al.	10/3/1995	
	20.	5476818		Yanof et al.	12/19/1995	
	21.	5495667		Farnsworth et al.	3/5/1996	
	22.	5500605		Chang	3/19/1996	
	23.	5578870		Farnsworth et al.	11/26/1996	
	24.	5635832		Ito et al.	6/3/1997	
WU	25.	5686842		Lee	11/11/1997	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number	10/490,028
Sheet	2	of	3	Filing Date	December 30, 2003
				First Named Inventor	Pedersen et al.
				Group Art Unit	Not known
				Examiner Name	Not known
				Attorney Docket No.	P46C1-US

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WAA	26.	5714803		Queyssac	2/3/1998	
	27.	5764486		Pendse	6/9/1998	
	28.	5811982		Beaman et al.	9/22/1998	
	29.	5865639		Fuchigami et al.	2/2/1999	
	30.	5874780		Murakami	2/23/1999	
	31.	5932891		Higashi et al.	8/3/1999	
	32.	6002266		Briggs et al.	12/14/1999	
	33.	6025730		Akram	2/15/2000	
	34.	6031282		Jones et al.	2/29/2000	
	35.	6031282		Jones et al.	2/29/2000	
	36.	6060891		Hembree et al.	5/9/2000	
	37.	6087845		Wood et al.	7/11/2000	
	38.	6292003	B1	Fredrickson et al.	9/18/2001	
WAA	39.	6452406		Beaman	9/17/2002	

<b>FOREIGN PATENT DOCUMENTS</b>								
Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant	Publication Date	Relevant Portions	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup>				
WAA	40.	EP	025210		Ermert	3/18/1981		
	41.	EP	072492		Wright	2/23/1983		
	42.	JP	02-34949		Bessho et al.	2/5/1990	x	
	43.	JP	03-142847		Ishida	6/18/1991	x	
	44.	JP	09-260535		Miyazaki et al.	10/3/1997	x	
	45.	TW	328643		Miyazaki et al.	3/21/1998	x	
	46.	WO	95/14314		Khandros et al.	5/26/1995		
	47.	WO	96/15459		Khandros et al.	5/23/1996		
	48.	WO	96/15551		Khandros et al.	5/23/1996		
WAA	49.	WO	97/43656		Khandros et al.	11/20/1997		

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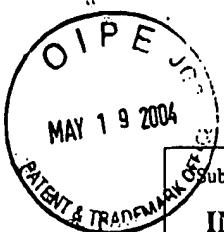
OTHER PRIOR ART – NONPATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
na	50.	"Chip Column Package Structure," IBM Technical Disclosure Bulletin, vol. 40, no. 8, pp. 117-18 (Aug. 1997)	
na	51.	"Composite-Contact Interconnection Scheme," IBM Technical Disclosure Bulletin, vol. 33, no. 5, pp. 394-95 (Oct. 1990)	
na	52.	CAMERON, "Installation Of Chips On Printed Circuit Cards," IBM Technical Disclosure Bulletin, vol. 11, no. 8, pg. 971 (Jan. 1969)	
na	53.	FALDA, "Pluggable Stacked Module," IBM Technical Disclosure Bulletin, vol. 23, no. 12, pp. 5410-11 (May 1981)	
na	54.	HINKLEY, "Packaging Techniques," IBM Technical Disclosure Bulletin, vol. 9., no. 7, pg. 765 (Dec. 1966)	

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12439-0113



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				Group Art Unit	Not known
				Examiner Name	Not known
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		Number	Kind Code <sup>2</sup>			
WU	1	5561594		Wakefield	10/1/1996	
WU	2	5772451		Dozier, II et al.	6/30/1998	
WU	3	6229320		Haseyama et al.	5/8/2001	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup>				
-4	JP	09-508241						
WU	5	JP	60-049656		Bapuka et al.	3/18/1985		x
WU	6	JP	07-263-092		Wakefield	10/13/1995		x
WU	7	JP	10-069955		Maruyama et al.	3/10/1998		x

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